

Dow LDPE 955I Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Molded

Material Notes:

DOW LDPE 955I resin is a medium molecular weight distribution homo polymer designed to offer excellent clarity and flexibility, and good toughness, with low warpage. Typical applications include lids, caps/ closures, and general purpose applications. This resin has good processability over a wide range of molding conditions. This material complies with U.S FDA regulation 21 CFR 177.1520(c) 2.1 for food contact applications. The regulation should be consulted for complete details. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-LDPE-955I-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	
Viscosity	27000 cP	27000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	44000 cP	44000 cP	Apparent Dynamic Viscosity
	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	
	60000 cP	60000 cP	Apparent Dynamic Viscosity
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	35 g/10 min	35 g/10 min	Melt flow ratio I10/I2 is 7.9.
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	8.80 MPa	1280 psi	
Tensile Strength, Yield	9.20 MPa	1330 psi	
Elongation at Break	500 %	500 %	
Modulus of Elasticity	0.167 GPa	24.2 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.269 GPa	39.0 ksi	
Izod Impact, Notched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	
	@Temperature -50.0 °C	@Temperature -58.0 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	93.0 °C	199 °F	

Thermal Properties	Metric	English	Comments
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